

IN THE CLAIMS:

Please amend claims 1, 4, 14, and 41-54 as follows.

1. (Currently Amended) A method, ~~for handing over a connection of a mobile entity from a first network access entity to a second network access entity, wherein a global address of the first network access entity is not known to the mobile entity, the method comprising:~~

sending a message including information for identifying ~~the~~ a first network access entity from ~~the~~ a mobile entity to ~~the~~ a second network access entity, wherein a global address of the first network access entity is not known to the mobile entity,

wherein the message is configured to enable a connection of the mobile entity to be handed over from the first network access entity to the second network access entity, and wherein the message is configured to enable ~~which enables~~ the second network entity to direct traffic destined to the first network entity.

2. (Previously Presented) The method according to claim 1, further comprising:

identifying, in the second network access entity, whether the message received from the mobile entity is directed to the first network access entity by checking an address indicated in the message, and checking whether the address is globally routable.

3. (Previously Presented) The method according to claim 2, wherein the identifying comprises checking the address to determine whether the address is globally routable or not based on a prefix of the address.

4. (Currently Amended) The method according to claim 1, wherein the sending comprises sending the message comprising a ~~Fast Binding Update~~ fast binding update message.

5. (Previously Presented) The method according to claim 1, wherein the sending comprises sending the message before de-establishing a connection between the mobile entity and the first network access entity.

6. (Previously Presented) The method according to claim 1, wherein the sending comprises sending the message after de-establishing the connection between the mobile entity and the first network access entity.

7. (Previously Presented) The method according to claim 1, further comprising:
receiving at the second network access entity a message from the first network access entity including the global address of the first network access entity.

8. (Previously Presented) The method according to claim 1, further comprising:

providing in the second network access entity a mapping table in which the
information for identifying the first network access entity received from the mobile entity
is mapped to a global address of the first network access entity.

9. (Previously Presented) The method according to claim 1, wherein the sending
comprises sending the information comprising at least one parameter as follows:

an old network identity associated with the first network access entity,

an old access point name,

an identity associated with an access point through which the mobile entity was
connected to the first network access entity, and

a link layer address of the mobile entity.

10. (Previously Presented) The method according to claim 1, further comprising:

sending a message including all or part of the information for identifying the first
network access entity to a proxy; and

determining, using the proxy, an address of the first network access entity.

11. (Original) The method according to claim 10, further comprising:

forwarding, using the proxy, traffic between the second network access entity and the first network access entity.

12. (Previously Presented) The method according to claim 1, further comprising:

monitoring, using the mobile entity, attributes of a network of the first network access entity in order to obtain the information for identifying the first network access entity.

13. (Previously Presented) The method according to claim 10, further comprising:

determining, using the second network access entity, an address of the proxy based on the information for identifying the first network access entity received from the mobile entity.

14. (Currently Amended) A method, ~~for handing over a connection of a mobile entity from a first network access entity to a second network access entity, wherein a global address of the second network access entity is not known to the mobile entity, the method comprising:~~

forming a message for handing over a connection of a mobile entity from a first network access entity to a second network access entity, wherein a global address of the second network access entity is not known to the mobile entity; and

sending ~~at~~the message including information for identifying the second network access entity from the mobile entity to the first network access entity, wherein the message ~~which~~ enables the first network access entity to direct traffic to the second network access entity.

15. (Previously Presented) The method according to claim 14, further comprising:
sending, a message including all or part of the information for identifying the second network access entity to a proxy; and
determining, using the proxy, an address of the second network access entity.

16. (Previously Presented) The method according to claim 15, further comprising:
forwarding, using the proxy, traffic between the first network access entity and the second network access entity.

17. (Previously Presented) The method according to claim 14, further comprising:

monitoring, using the mobile entity, attributes of a network of the second network access entity in order to obtain the information for identifying the second network access entity.

18. (Previously Presented) The method according to claim 15, further comprising:

determining, using the first network access entity, the address of the proxy based on the information for identifying the second network access entity received from the mobile entity.

19. (Previously Presented) The method according to claim 14, further comprising:

identifying, in the first network access entity, whether the message received from the mobile entity is directed to the second network access entity by checking an address indicated in the message, and checking whether the address is globally routable.

20. (Previously Presented) The method according to claim 19, wherein the identifying comprises checking the address to determine whether the address is globally routable or not based on a prefix of the address.

21. (Previously Presented) The method according to claim 14, wherein the sending comprises sending the message comprising a handover Initiate message.

22. (Original) The method according to claim 14, wherein
providing in the first network access entity a mapping table in which the information for identifying the second network access entity received from the mobile entity is mapped to a global address of the second network access entity.

23. (Previously Presented) The method according to claim 14, wherein the sending comprises sending the information for identifying the second network access entity comprising at least one parameter selected from at least one parameter as follows:

a target network identity,

a target access point name, and

an identity associated with an access point through which the mobile entity connects to the second network access entity.

24-40. (Cancelled)

41. (Currently Amended) ~~A mobile entity~~ An apparatus, of network system
~~comprising a first network access entity and a second network access entity, wherein a~~

~~global address of the first network access entity is not known to the mobile entity,~~
~~wherein~~

~~the mobile entity is configured to:~~

send a message including information for identifying ~~the~~ a first network access entity to ~~the~~ a second network access entity which enables the second network access entity to direct traffic to the first network access entity, wherein a global address of the first network access entity is not known to the apparatus.

42. (Currently Amended) The ~~mobile entity~~apparatus according to claim 41, wherein the message is a fast binding update ~~Fast Binding Update (F-BU)~~ message.

43. (Currently Amended) The ~~mobile entity~~apparatus according to claim 41, wherein the information for identifying the first network access entity comprises at least one of the following parameters:

old network identity associated with the first network access entity,

old access point name,

identity associated with the access point through which the ~~mobile entity~~apparatus was connected to the first network access entity, and/or

a link layer address of the ~~mobile entity~~apparatus.

44. (Currently Amended) The ~~mobile entity~~apparatus according to claim 41, wherein the ~~mobile entity~~apparatus is configured to monitor attributes of the network of

the second network access entity in order to obtain information for identifying the second network access entity.

45. (Currently Amended) ~~A mobile entity~~An apparatus, ~~of a network system comprising a first network access entity and a second network access entity, wherein a global address of the second network access entity is not known to the mobile entity,~~ wherein

~~the mobile entity~~ is configured to send a message including information for identifying ~~the~~a second network access entity to ~~the~~a first network access entity, which enables the first network access entity to direct traffic to the second network access entity,

wherein a global address of the second network access entity is not known to the apparatus.

46. (Currently Amended) The ~~mobile entity~~apparatus according to claim 45, wherein the ~~mobile entity~~apparatus is configured to monitor attributes of the network of the second network access entity in order to obtain information for identifying the second network access entity.

47. (Currently Amended) The ~~mobile entity~~apparatus according to claim 45, wherein the message is a handover initiate ~~Initiate (HI)~~ message.

48. (Currently Amended) The ~~mobile entity~~apparatus according to claim 45, wherein the information for identifying the second network access entity comprises at least one of the following parameters:

a target network identity,
target access point name, or
identity associated with the access point through which the ~~mobile entity~~apparatus will be connected to the second network access entity.

49. (Currently Amended) A computer program embodied on a computer readable medium, the computer readable medium storing computer executable instructions configured to control a processor to perform a method comprising:

forming a message which enables a second network entity to direct traffic destined to a first network entity, wherein a global address of the first network access entity is not known to a mobile entity; and

sending the a-message including information for identifying a the first network access entity from a the mobile entity to a the second network access entity, ~~which enables the second network entity to direct traffic destined to the first network entity, wherein a global address of the first network access entity is not known to the mobile entity.~~

50. (Currently Amended) A computer program embodied on a computer readable medium, the computer readable medium storing computer executable instructions configured to control a processor to perform a method comprising:

forming a message which enables a first network entity to direct traffic destined to a second network entity, wherein a global address of the first network access entity is not known to a mobile entity; and

sending ~~a~~the message including information for identifying a ~~the~~second network access entity from a ~~a~~the mobile entity to a ~~a~~the first network access entity, ~~which enables the first network entity to direct traffic destined to the second network entity, wherein a global address of the first network access entity is not known to the mobile entity.~~

51. (Currently Amended) A first network access entity, configured to:

receive a message from a mobile entity, the message including information for identifying a second network access entity to the first network access entity, wherein a global address of the second network access entity is not known to the mobile entity;; and

~~wherein use said message enables the first network entity to direct traffic to the second network access entity.~~

52. (Currently Amended) ~~A mobile entity of network system comprising a first network access entity and a second network access entity, wherein a global address of the first network access entity is not known to the mobile entity, wherein~~An apparatus, comprising:

~~the mobile entity comprises~~

~~forming means for forming~~ sending means for sending a message including information for identifying the first network access entity to the second network access entity which enables the second network access entity to direct traffic to the first network access entity, wherein a global address of the first network access entity is not known to the apparatus; and

sending means for sending the message.

53. (Currently Amended) ~~A mobile entity of a network system comprising a first network access entity and a second network access entity, wherein a global address of the second network access entity is not known to the mobile entity, An apparatus, comprising:~~

~~wherein the mobile entity comprises sending means for sending~~ forming means for forming a message including information for identifying ~~the a~~ a second network access entity to ~~the a~~ a first network access entity, which enables the first network access entity to direct traffic to the second network access entity, wherein of a global address of the second network access entity is not known to the apparatus; and

sending means for sending said message.

54. (Currently Amended) A first network access entity, comprising:

receiving means for receiving a message from a mobile entity, the message including information for identifying a second network access entity to the first network

access entity, wherein a global address of the second network access entity is not known to the mobile entity;² and

~~wherein~~traffic directing means for using said message ~~enables the first network entity~~ to direct traffic to the second network access entity.